

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

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REC'D 01 MAR 2005

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/IB2004/052315

International filing date (day/month/year)
04.11.2004

Priority date (day/month/year)
21.11.2003

International Patent Classification (IPC) or both national classification and IPC
G10K11/35

Applicant
KONINKLIJKE PHILIPS ELECTRONICS, N.V.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IB2004/052315

Box No. I Basis of the opinion

1. With regard to the **language**, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material:
 - in written format
 - in computer readable form
 - c. time of filing/furnishing:
 - contained in the international application as filed.
 - filed together with the international application in computer readable form.
 - furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/IB2004/052315

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or
industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes:	Claims	3-7,10-15
	No:	Claims	1,2,8,9
Inventive step (IS)	Yes:	Claims	3-7,10-15
	No:	Claims	1,2,8,9

Industrial applicability (IA) Yes: Claims 1-15
No: Claims

2. Citations and explanations

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. Reference is made to the following document:

D1: US-A-5 460 179 (OKUNUKI ET AL) 24 October 1995 (1995-10-24)

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document) an ultrasonic diagnostic imaging system which acquires three dimensional image data sets (see column 1, lines 10-15) by scanning of a one-dimensional array transducer (see column 4, lines 46-50) comprising :

- an array transducer including an array of transducer elements extending in an azimuth direction and an elevation dimension normal to the azimuth direction (see fig.4);
- a motive device coupled to the array transducer, which acts to sweep the array transducer in reciprocating directions substantially in the elevation dimension (see claim 1 and fig.4);
- a transmitter, coupled to the array transducer, which acts to cause the array transducer to transmit a sequence of beams in the azimuth direction, wherein a first sequence of beams is transmitted when the transducer is swept in one reciprocating direction, and a second sequence of beams is transmitted when the transducer is swept in another reciprocating direction (see column 1, line 67 : column 2, line 32).

Note : The terms "a first sequence of beams" and "a second sequence of beams" are very broad and leave the reader in doubt as to the meaning of the technical features to which they refer. In document D1, the array transducer is activated in a back and forth direction. Therefore, it is considered that when the transducer is swept in one direction, a first sequence of beams is transmitted and when the transducer is swept in the other direction, another sequence (or second sequence) of beams is transmitted.

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent method claim 8, which therefore is also considered not new.

**WRITTEN OPINION OF THE
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AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/IB2004/052315

3. Dependent claims 2 and 9 do not appear to contain any features which, in combination with the features of claims 1 or 8 to which they refer, meet the requirements of the PCT in respect of novelty, see document D1 and the corresponding passages cited in the search report.